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## UTILITY PATENT APPLICATION **TRANSMITTAL**

Attorr	ney Docket No.	Y0165-002				
First Inventor		Pan, Janet L.				
Title	Use of Deep-leve	el Transitions Semiconductor Device				
		EV/005400045410				

Only for new nonprovisio	nal applications under 37 CFR 1.53(b))	press	Mail Label No.	EV 2654	1982	45 US		
APPLICA	1	ADDRESS TO: Assistant Commissioner for Patents Box Patent Application						
See MPEP chapter 600 con.  1. Fee Transmittal F (Submit an original and a Applicant claims see 37 CFR 1.27  3. Specification (preferred arrangement - Descriptive title - Cross Reference - Statement Regent - Reference to see or a computer per - Background of - Brief Summary - Brief Description - Detailed Description - Claim(s) - Abstract of the		ADDRESS TO: Box Patent Application Washington, DC 20231  7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)  8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) a. Computer Readable Form (CRF) b. Specification Sequence Listing on: i. CD-ROM or CD-R (2 copies); or ii. paper c. Statements verifying identity of above copies  ACCOMPANYING APPLICATION PARTS  9. Assignment Papers (cover sheet & document(s)) 37 CFR 3.73(b) Statement Power of						
- Abstract of the Disclosure  4. Drawing(s) (35 U.S.C. 113) [ Total Sheets 16 ]  5. Oath or Declaration [ Total Pages 2 ]  a. Newly executed (original or copy) Copy from a prior application (37 CFR 1.63 (d)) (for continuation/divisional with Box 18 completed)  i. DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).  6. Application Data Sheet. See 37 CFR 1.76  18. If a CONTINUING APPLICATION, check appropriate box, and supply or in an Application Data Sheet under 37 CFR 1.76: Continuation Divisional Continuation-in-part (CIP) Prior application information: Examiner: For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the Box 5b, is considered a part of the disclosure of the accompanying continua The incorporation can only be relied upon when a portion has been inadverted			11. English Translation Document (if applicable)  12. Information Disclosure Statement (IDS)/PTO-1449  13. Preliminary Amendment  14. Return Receipt Postcard (MPEP 503) (Should be specifically itemized)  15. Certified Copy of Priority Document(s) (if foreign priority is claimed)  16. Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.  17. Other:  The requisite information below and in a preliminary amendment, of prior application No.:  Group Art Unit:  Group Art Unit:  Dirior application, from which an oath or declaration is supplied under ion or divisional application and is hereby incorporated by reference.					
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Name (Print/Type)	Name (Print/Type) David Garrod				Registration No. (Attorney/Agent) 35,149			
Signature		~		Date	09/0	4/2003		

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Attorney Docket No .: Y0165-002

**PATENT** 

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Pan, Janet L.

Serial No.:

N/A

Filing Date:

Filed Herewith

Title:

Use of Deep-Level Transitions in Semiconductor Devices

Mailstop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, VA 2313-1450

## **EXPRESS MAIL CERTIFICATE**

Express Mail Label No.: EV 265498245 US

Date of Deposit: September 4, 2003

I hereby certify that the following documents:

- 1. Utility Patent Application Transmittal Form (1 page);
- 2. Fee Transmittal Form (1 original, 1 copy, 2 pages);
- 3. Declaration (2 pages);
- 4. Preliminary Amendment (42 pages);
- 5. Patent Application Specification (75 pages);
- 6. Figures 1-16 (16 pages);
- 7. Check #: 130492 in the amount of \$375.00; and,
- 8. Return postcard,

are being deposited with the United States Postal Service "Express Mail Post Office To Addressee" service under 37 C.F.R. § 1.10 on the date indicated above and is addressed to, Assistant Commissioner for Patents, Box Patent Application, Washington, D.C. 20231.

Respectfully Submitted,

Mailing Address:

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1133 Avenue of the Americas New York, NY 10036-6710 Telephone: (212) 336-2000

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PTO/SB/17 (01-03)

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OMB 0651-0032 FEE TRANSMITTAL Complete if Known Application Number N/A for FY 2003 Filing Date Filed Herewith Effective 01/01/2003. Patent fees are subject to annual revision. First Named Inventor Pan, Janet L Applicant claims small entity status. See 37 CFR 1.27 Examiner Name N/A Art Unit TOTAL AMOUNT OF PAYMENT N/A (\$) 375.00 Attorney Docket No. Y0165-002 METHOD OF PAYMENT (check all that apply) FEE CALCULATION (continued) Check Credit card Money Other 3. ADDITIONAL FEES Deposit Account: Large Entity , Small Entity Deposit Fee Fee Fee Account 16-0633 Fee Description Code (\$) Code Number Fee Paid 1051 130 Deposit 2051 65 Surcharge - late filing fee or oath Account 1052 Name 50 2052 25 Surcharge - late provisional filing fee or The Commissioner is authorized to: (check all that apply) cover sheet 1053 130 1053 130 Non-English specification Charge fee(s) indicated below Credit any overpayments 1812 2,520 1812 2,520 For filing a request for ex parte reexamination Charge any additional fee(s) during the pendency of this application 1804 1804 920\* Requesting publication of SIR prior to Charge fee(s) indicated below, except for the filing fee Examiner action to the above-identified deposit account. 1805 1,840\* 1805 1,840\* Requesting publication of SIR after Examiner action FEE CALCULATION 1251 110 2251 Extension for reply within first month 1. BASIC FILING FEE 1252 410 2252 205 Extension for reply within second month arge Entity Small Entity 1253 930 2253 Fee Fee Fee Fee Code (\$) Extension for reply within third month Fee Description Fee Paid 1254 1,450 725 Extension for reply within fourth month 2254 1001 750 2001 375 Utility filing fee 1255 1,970 2255 985 Extension for reply within fifth month \$375.00 1002 330 2002 165 Design filing fee 1401 320 2401 1003 520 160 Notice of Appeal 2003 260 Plant filing fee 1402 320 2402 160 Filing a brief in support of an appeal 1004 750 2004 375 Reissue filing fee 1403 280 2403 1005 160 140 Request for oral hearing 2005 80 Provisional filing fee 1451 1,510 1,510 Petition to institute a public use proceeding 1451 SUBTOTAL (1) (\$) 1452 110 2452 55 Petition to revive - unavoidable 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE 1453 1,300 2453 650 Petition to revive - unintentional 1501 1,300 Fee from 2501 650 Utility issue fee (or reissue) Extra Claims Total Claims below Fee Paid 20 1502 470 2502 235 Design issue fee -201 Independent 3 1503 630 2503 - 3 315 Plant issue fee Multiple Dependent 1460 130 1460 130 Petitions to the Commissioner 1807 Large Entity | 50 1807 Small Entity 50 Processing fee under 37 CFR 1.17(q) Fee Fee Code (\$) Fee Fee Fee Description 1806 180 1806 180 Submission of Information Disclosure Stmt Code (\$) 1202 8021 40 Recording each patent assignment per 40 18 2202 8021 Claims in excess of 20 9 property (times number of properties) 1201 84 2201 Independent claims in excess of 3 42 1809 750 2809 375 Filing a submission after final rejection 1203 280 (37 ČFR 1.129(a)) 2203 140 Multiple dependent claim, if not paid 1810 750 375 For each additional invention to be 1204 2810 84 2204 \*\* Reissue independent claims 42 examined (37 CFR 1.129(b)) over original patent 1801 375 Request for Continued Examination (RCE) 750 1205 2801 18 2205 \*\* Reissue claims in excess of 20 1802 900 1802 and over original patent 900 Request for expedited examination of a design application SUBTOTAL (2) (\$) 375.00 Other fee (specify) \*\*or number previously paid, if greater; For Reissues, see above \*Reduced by Basic Filing Fee Paid SUBTOTAL (3) SUBMITTED BY l(\$) Name (Print/Type) David Garrod (Complete (if applicable) Registration No. 35,149 Signature (<u>Attornev/Agent</u> Telephone 212-336-2183

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This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: